

Battelle Memorial Institute,  
First Hot Isostatic Pressure Vessel  
505 King Avenue  
Columbus  
Franklin County  
Ohio

HAER No. OH-65-B

HAER  
OHIO,  
25-COLB.  
38B-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE INFORMATION

Historic American Engineering Record  
National Park Service  
Department of the Interior  
Washington, DC 20013-7127

HAER  
OHIO,  
25-COLB,  
388 -

# HISTORIC AMERICAN ENGINEERING RECORD

BATTELLE MEMORIAL INSTITUTE, FIRST HOT ISOSTATIC PROCESSING VESSELS  
HAER No. OH-65-B

Location: 505 King Avenue, Columbus, Franklin County, Ohio

Date of  
Construction: 1958

Present Owner: Battelle Memorial Institute

Significance: Conceived by Batelle researchers in 1955, the hot isostatic pressure (HIP) vessel is now used worldwide to manufacture ceramic and advanced alloys and for fabricating complex-shaped parts such as jet engine turbines and cutting tools.

In this process, materials are placed in a vessel, where intense heat and gas pressure are applied simultaneously and on all sides. HIP can consolidate powders of metals, ceramics, or combinations of the two into complex shapes with little need for machining; bond together materials which normally cannot be welded; heal defective castings; rejuvenate worn parts; or pressure infiltrate liquids into porous solids.

The American Society of Mechanical Engineers (ASME) designated the HIP vessels an International Historic Mechanical Engineering Landmark on April 2, 1985.

Source: Press Release, "ASME Landmarks Battelle's HIP Vessel," April [1985], p. 1.

Historian: Robert Buerglener, September, 1988.

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